

SB Series

Universal Bellows Suction Cup

AIRBEST



UNIVERSAL

RoHS

Suction Cup

Features

- ◇ 1.5 Bellows
- ◇ Support structure at the bottom
- ◇ Various sizes for option

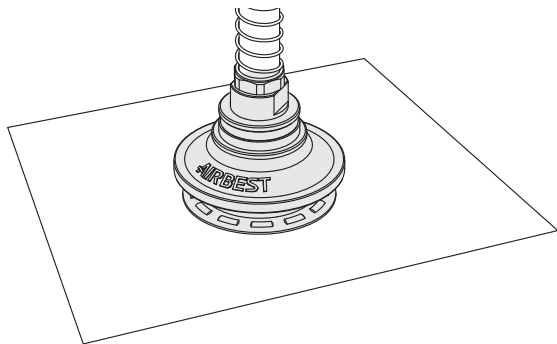
Advantages

- ◇ Easy to fit uneven surface of workpiece, and has buffer effect
- ◇ Handling thin workpiece without permanent deformation
- ◇ Suitable for workpieces with different sizes and shapes



Applications

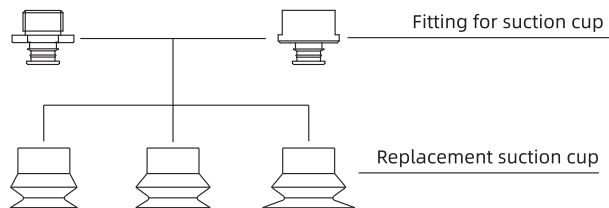
- ◇ Handling of workpieces with uneven surface, such as carton, cardboard, cambered workpiece, pipe, etc
- ◇ Handling fragile workpieces, such as electronic components, plastic injection parts, etc
- ◇ Handling smooth wood plate, smooth steel plate and so on



Structure

- ◇ 1.5 Bellows, large compressed stroke.
- ◇ Suction cup and fitting are split structure design, wearing parts can be replaced separately.

In same series, replacement suction cup and fitting can be combined on request.



- SZ
- SP3
- SUF
- SAN
- SAO
- SOFA
- STP
- SFT
- SFA
- SBL
- SBLP
- SBS
- SFP
- SBP
- SXP
- SGP
- SBOF
- STC
- SFF
- SOB
- SOF
- SOG
- SFM
- SOM
- SBF
- SDM
- SFU
- SFK
- SHT
- SDL
- SFG
- SFD**
- SB**
- SBA
- SF
- SU
- SPA
- SPF
- SPC
- SPJ
- SPU
- SH
- SHB
- SBB
- SOP
- SNP

How to order

SB 30 N - G1M

① ② ③ ④

① Series	② Diameter	③ Material & Hardness	④ Connection thread
SB	5 - ϕ 5mm 20 - ϕ 20mm	N - NBR 55	Nil - Suction cup only
	6 - ϕ 6mm 30 - ϕ 30mm	S - Silicone 50	M5M - M5×0.8 male thread
	8 - ϕ 8mm 40 - ϕ 40mm	WS - White silicone 50	G1M - G1/8 male thread
	10 - ϕ 10mm 50 - ϕ 50mm	CS - Conductive silicone 55	G2M - G1/4 male thread
	12 - ϕ 12mm 75 - ϕ 75mm		G3M - G3/8 male thread
	15 - ϕ 15mm 110 - ϕ 110mm		G1F - G1/8 female thread
	17 - ϕ 17mm 150 - ϕ 150mm		G2F - G1/4 female thread
			G3F - G3/8 female thread
			G4F - G1/2 female thread

Selection

Model	Connection thread M - Male thread	F - Female thread
SB5□	SB5□-M5M	-
SB6□	SB6□-M5M	-
SB8□	SB8□-M5M	-
SB10□	SB10□-M5M	-
SB12□	SB12□-M5M	-
SB15□	SB15□-M5M	-
SB17□	SB17□-G1M	SB17□-G1F
SB20□	SB20□-G1M	SB20□-G1F
SB30□	SB30□-G1M	SB30□-G1F
SB40□	SB40□-G1M	SB40□-G1F
SB50□	SB50□-G2M SB50□-G3M	SB50□-G2F SB50□-G3F
SB75□	-	SB75□-G2F
SB110□	-	SB110□-G4F
SB150□	-	SB150□-G4F

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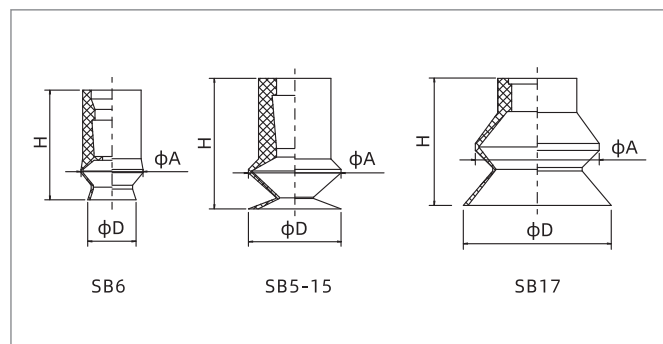
Suction Cup

Technical parameters

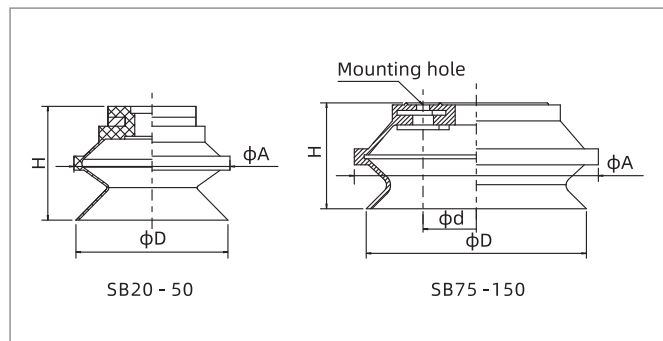
Model	Pull-out force N	Inner volume cm ³	Min.curve radius of workpiece mm	Weight g	Recommended hose dia. mm	MPQ pcs
SB5	0.8	<0.1	8	0.3	4	10
SB6	1.2	<0.1	8	0.5	4	10
SB8	2.1	<0.1	10	0.4	4	10
SB10	3.2	0.4	12	0.9	4	10
SB12	4.7	0.5	15	1.5	6	10
SB15	7.4	0.8	20	1.5	6	10
SB17	9.5	1.1	25	1	6	10
SB20	18	1.2	30	3	6	5
SB30	33	14	35	7.5	6	5
SB40	60	18	50	13	6	5
SB50	92	26	80	24	8	1
SB75	210	96	60	68	8	1
SB110	412	314	120	178	12	1
SB150	740	798	160	439.5	12	1

◇ Note: Testing vacuum level -60kPa, workpiece with smooth and clean surface. The data of pull-out force as above are figured out without considering safety factor. The data may be different according to different workpiece surfaces. Recommend the length of vacuum hose to be as short as possible, max 2m.

Dimintions(mm) - Suction cup only



SB



SB

Model/Size	D	A	H
SB5□	5.8	6.2	9.2
SB6□	7	9	13.5
SB8□	8.8	9.6	11.9
SB10□	11	12	16
SB12□	12	14	16.5
SB15□	15.5	17.5	19.5
SB17□	18.5	16.6	15.6

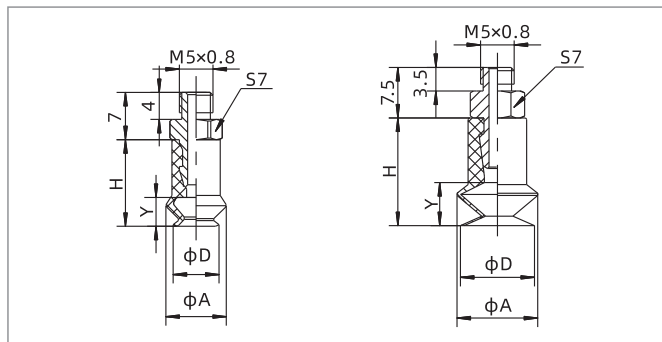
Model/Size	D	A	H	d	Mounting hole
SB20□	22	24	19	-	-
SB30□	34	36	26	-	-
SB40□	43	46	28	-	-
SB50□	53	58	35	-	-
SB75□	78	83	37	35	4-φ6
SB110□	115	124	54	55	8-φ6
SB150□	155	166	71	70.5	8-φ6

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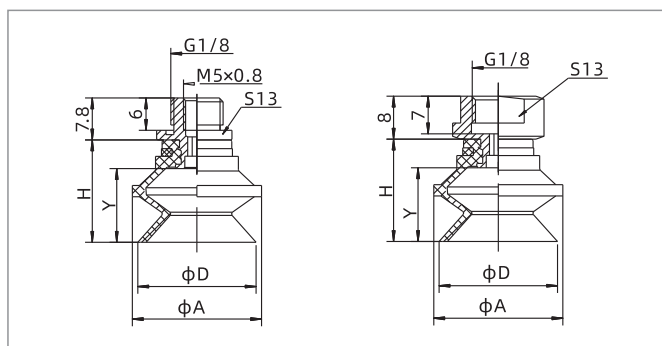


Dimensions(mm) - Suction cup with fitting



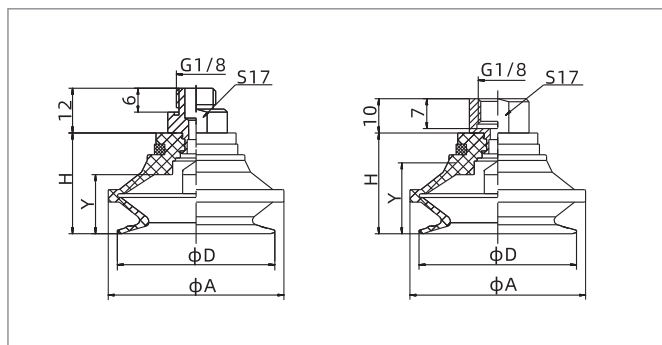
SB6-M5M

SB-M5M



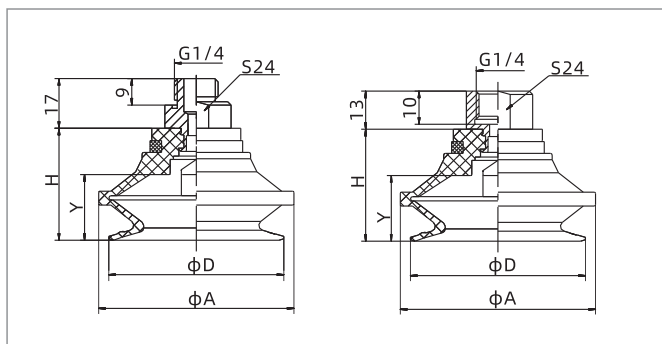
SB-G1M

SB-G1F



SB-G1M

SB-G1F



SB50-G2M

SB50-G2F

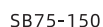
Model/Size	D	A	H	Y
SB5-M5M	5.8	6.2	9.2	3.6
SB6-M5M	7	9	13.5	4.5
SB8-M5M	8.8	9.6	11.9	6.5
SB10-M5M	11	12	16	7
SB12-M5M	12	14	16.5	5.5
SB15-M5M	15.5	17.5	19.5	10

Model/Size	D	A	H	Y
SB17-G1M	18.5	16.6	15.6	10.5
SB17-G1F	18.5	16.6	15.6	10.5
SB20-G1M	22	24	19	9
SB20-G1F	22	24	19	9

Model/Size	D	A	H	Y
SB30-G1M	34	36	26	19
SB30-G1F	34	36	26	19
SB40-G1M	43	46	28	20
SB40-G1F	43	46	28	20

Model/Size	D	A	H	Y
SB50-G2M	53	58	35	20
SB50-G2F	53	58	35	20

Suction Cup



◇ Note: The dimensional tolerance conforms to GBT3672.1-2002-1 M3 rubber product dimensional tolerance standard

Model/Size	D	A	H	h	G	Y
SB75□-G2F	78	83	37	13	G1/4	27
SB110□-G4F	115	124	54	9	G1/2	38.5
SB150□-G4F	155	166	71	10	G1/2	44.5

SZ
SP3
SUF
SAN
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SOF
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SFT
SFA
SBL
SBLI
SBS
SFP
SBP
SXP
SGP
SBO
STC
SFF
SOB
SOF
SOG
SFM
SOM
SBF
SDM
SFU
SFK
SHT
SDL
SFG
SFD
SB
SBA
SF
SU
SPA
SPF
SPC
SPJ
SPU
SH
SHB
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